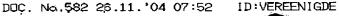




## INTERNATIONAL SEARCH REPORT

	INTERNATIONAL SEARCH RE	FORT	PCT/NL 03/00408		
A. CLASSII IPC 7	C1201/00 C1201/46 G01N33	/6B G01N35/	<b>'</b> 08		
	International Paters Classification (IPC) or to both national class	sification and IPC			
	SEARCHED  cumentation searched (classification system tollowed by classifi	cation symbols)			
ÎPC 7	C12Q G01N		·		
Documentat	ion searched other then minimum documentation to the extens th	iat such documents are inc	duded in the fields searched		
Electronic d	ara base consulted during the international search (name of data	base and, where practice	al, search terms used)		
EPO-In	ternal, BIOSIS, MEDLINE, PAJ, WPI	Data, COMPEND	EX, INSPEC, FSTA		
G. DOCUM	ents considered to be relevant				
Çaləgory *	Cibilian of document, with Indication, where appropriate, of the	ė rėlėvani passagas	Relevant to claim No.		
Y	INGKANINAN K ET AL: "High-per- liquid chromatography with on- UV, mass spectrometric and biod	line coupled	1-12		
	detection for identification or acetylcholinesterase inhibitor:				
	natural products" JOURNAL OF CHROMATOGRAPHY, ELSI SCIENCE PUBLISHERS B.V. AMSTERI	EVIER DAM, NL,			
	vol. 872, no. 1-2, March 2000 pages 61-73, XP004190228 ISSN: 0021-9673				
	cited in the application the whole document page 67, right-hand column, pa	nagnanh 2			
	abstract page 64; figure 1C	iayiahii 2			
		-/			
X Fun	ther documents are listed in the continuation of box C.	X Palent lami	ly members are listed in annex.		
	alegories of citod documents : ant defining the general state of the an which is not	T later document p	utished after the international filing date and not in conflict with the application but		
consi	decement but published on or after the international	invention "X" document of part	ind the principle or theory underlying the		
- CHEATE	ent which may throw doubts on priority claim(s) or Is cired to establish the publication data of another or other special reason (as epecilled)	involve an inver "Y" document of part cannot be consi			
other	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filling data but han the priority data ctaimed	ments, such cor in the art	mbined with one or more other suich docu- mbinetion being obvious to a person skilled		
	actual competion of the International search		*A* document member of the same petent tamily  Date of mailing of the international search report		
2	6 November 2003	04/12/	04/12/2003		
Name and	mailing address of the ISA European Patent Olfice, P.B. 5818 Palentiaan 2	Authorized office	ır		
	NL - 2280 HV Rijswijk Tsl. (+31-70) 340-2040, Tx. 91 651 cpo ni, Fax: (+31-70) 340-3016	Tuynma	n, A		

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## INTERNATIONAL SEARCH REPORT PCT/NL 03/00408 C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages "Analysis of 1-11 LANGRIDGE JAMES I ET AL: cyclic nucleotide-related enzymes by continuous-flow fast-atom bombardment mass spectrometry. RAPID COMMUNICATIONS IN MASS SPECTROMETRY, vol. 7, no. 4, 1993, pages 293-303, XP008010052 ISSN: 0951-4198 cited in the application abstract page 293, right-hand column, line 5 -page 294, left-hand column, line 6 page 300, right-hand column, paragraph 3 -page 302, left-hand column, paragraph 1 WO 02 37111 A (IRTH HUBERTUS ; VRIJE UNIVERSITEIT VAN AMSTERD (NL)) 10 May 2002 (2002-05-10) 1-12 Υ ٧ the whole document page 3, line 13 - line 15 page 10, line 28 -page 11, line 3 Υ 1-12 ZHANG BOYAN ET AL: "Frontal affinity chromatography coupled to mass spectrometry for screening mixtures of enzyme inhibitors." ANALYTICAL BIOCHEMISTRY, vol. 299, no. 2, 15 December 2001 (2001-12-15), pages 173-182, XP002219168 ISSN: 0003-2697 cited in the application the whole document page 178; figure 3F page 179, left-hand column, line 8 - line 20 abstract page 174, right-hand column, paragraph 3 -page 175, right-hand column, paragraph 1 χ CRAIG A GREY ET AL: "Monitoring protein 13 kinase and phosphatase reactions with matrix—assisted laser desorption/ionization mass spectrometry and capillary zone electrophoresis: Comparison of the detection efficiency of peptide-phosphopeptide mixtures." BIOLOGICAL MASS SPECTROMETRY, vol. 23, no. 8, 1994, pages 519-528, XP008010048 ISSN: 1052-9306 abstract

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PAGS. 17/64

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	INTERNATIONAL SEARCH REPORT	PCT/NL 03/00408		
C.(Continue	MON) DOCUMENTS CONSIDERED TO BE RELEVANT	1 C 17 NE 037 00400		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	MURRAY K J ET AL: "USE OF A SYNTHETIC DODECAPEPTIDE (MALANTIDE) TO MEASURE THE CYCLIC AMP-DEPENDENT PROTEIN KINASE ACTIVITY RATIO IN A VARIETY OF TISSUES" BIOCHEMICAL JOURNAL, PORTLAND PRESS, LONDON, GB, vol. 267, 1 May 1990 (1990-05-01), pages 703-708, XP000945069 ISSN: 0264-6021 the whole document	13		
X	KHOURI H E ET AL: "A MODEL TO EXPLAIN THE PH-DEPENDENT SPECIFICITY OF CATHEPSIN B-CATALYZED HYDROLYSES" BIOCHEMICAL JOURNAL, vol. 275, no. 3, 1991, pages 751-758, XP008025017 ISSN: 0264-6021 the whole document	13		
BOYAGA	10 (continuation of second shact) (kdy 1962)			

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#### INTERNATIONAL SEARCH REPORT

PCT/NL 03/00408

Box   Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This international Search Report has not been established in respect of certain dalms under Article 17(2)(a) for the following reasons:	
1. Chairma Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2. X Claims Nos.: 13 (in part) because they relate to parts of the International Application that so not comply with the prescribed requirements to such an extent that no meaningful International Search OAn be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	1
This International Searching Authority found multiple inventions in this International application, as follows:	1
see additional sheet	
1. As all required additional search fees were untily paid by the applicant, this international Search Report covers all searchable claims.	
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely pald by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Hemank on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

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International Application No. PCT/NL 03 00408

## FURTHER INFORMATION CONTINUED FROM PCTASAV 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims; 1-11 (fully), 13 (partially)

Mass spectrometry coupled on-line detection method of enzyme activity in an effluent of a fractionation step by detection of unreacted substrate or modified substrate product.

2. Claims: 12 (fully), 13 (partially)

Mass spectrometry on-line detection method of different fractionation effluents to which enzyme and substrate are added using a multiple-inlet unit.

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International Application No. PCTAL 03 00408

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 13 (in part)

Present claim 13 relate to a compound defined by reference to a desirable characteristic or property, namely being detectable by a the method of any of claims 1-12.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds phosphorylated malantide, phosphorylated kemptide and the hydrolysis products of the compound Z-FR-AMC, mentioned in examples 1,2 and 3, respectively.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

NNM&M

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INTERNATIONAL SEARCH REPORT					PCI/NE C	03/00408
Patent document cited in search report	}	Publication date		Patent family member(s)		Publication date
WO 0237111	A	10-05-2002	EP AU EP WO	1202056 2420102 1330648 0237111	A A2	02-05-2002 15-05-2002 30-07-2003 10-05-2002
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